SEQUENCE LISTING **(1)** GENERAL INFORMATION Darrell Anderson, Nabil Hanna, John Leonard, (i) APPLICANT: Roland Newman and Mitchell Reff TITLE OF INVENTION: THERAPEUTIC APPLICATION OF (ii) 10 CHIMERIC ANTIBODY TO HUMAN B LYMPHOCYTE RESTRICTED DIFFERENTIATION ANTIGEN FOR TREATMENT OF B CELL LYMPHOMA NUMBER OF SEQUENCES: 8 - 15 (iii) **CORRESPONDING ADDRESS:** (iv) **IDEC Pharmaceuticals Corporation** ADDRESSEE: (A) 20 STREET: 11099 N. Torrey Pines Road, #160 (B) CITY: La Jolla (C) (D) STATE: California **USA** COUNTRY: **(E)** ZIP: 92037 (**F**) 25 COMPUTER READABLE FORM: (v) MEDIUM TYPE: Diskette, 3.5 inch, 1.44 Mb (A) COMPUTER: Macintosh (B) 30 (C) OPERATING SYSTEM: MS.DOS SOFTWARE: Microsoft Word 5.0 (D) **CURRENT APPLICATION DATA:** (vi) APPLICATION NUMBER: 35 (A) (B) FILING DATE: CLASSIFICATION: (C) (viii) ATTORNEY/AGENT INFORMATION: 40 (A) NAME: Burgoon, Richard P. Jr. (B) REGISTRATION NUMBER: 34,787 (C) REFERENCE/DOCKET NUMBER: TELECOMMUNICATION INFORMATION: 45 (ix)

TELEPHONE: (619) 458-0600

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(A)

(B)

o		(2)	INFO	RMATI(ON F	OR SEQ. II). NO ₁ : 1:			
	_		(i)	SEQUE	ENCE	CHARACT	ERISTICS:			
	5		((B) I (C) S	YPE TRA	TH: 8540 k : nucleic ac NDEDNES LOGY: circ	id \ S: single			
-	10		(ii)	MOLE	CULE	E TYPE: DI	VA (genomic	.)		
_			(iii)	НҮРОТ	HET	ICAL: yes -	vo /			
.]	15		(iv)	ANTI-S	ENS	E: no				
_			(ix)	SEQUE	NCE	DESCRIPT	rion: \$eq	. ID. NO _j : 1	:	
ć	20	GAC	CGTCGCGG	CCGCTC	TAGG	CCTCCAAAAA	AGCCTCOTCA	CTACTTCTGG	AATAGCTCAG	60
4	40	AGG	CCGAGGC	GGCCTC	GGCC	TCTGCATAAA	ТАДААААТ	TAGTCAGCCA	TGCATGGGGC	120
		GGA	GAATGGG	CGGAAC	TGGG	CGGAGTTAGG	GGCGGGATGG	GCGGAGTTAG	GGGCGGGACT	180
2	25	ATG	GTTGCTG	ACTAAT	TGAG	ATGCATGCTT	TGCATACTTC	TGCCTGCTGG	GGAGCCTGGG	240
r		GAC	TTTCCAC	ACCTGG	TTGC	TGACTAATTG	AGATGCATG	TTTGCATACT	TCTGCCTGCT	300
٠.	30	GGG	GAGCCTG	GGGACT	TTCC	ACACCCTAAC	TGACACACAT	TCCACAGAAT	TAATTCCCCT	360
٠	50	AGT	TATTAAT	AGTAAT	СААТ	TACGGGGTCA	TTAGTTCATA	GCCCATATAT	GGAGTTCCGC	420
		GTT	'ACATAAC	TTACGG	TAAA	TGGCCCGCCT	GGCTGACCGC	CAACGACCC	CCGCCCATTG	480
9	35	ACG	TCAATAA	TGACGT	ATGT	TCCCATAGTA	ACGCCAATAG	GGACTTTCCA	TTGACGTCAA	540
		TGG	GTGGACT	ATTTAC	GGTA	AACTGCCCAC	TTGGCAGTAC	ATCAAGTGTA	TCATATGCCA	600
	10	AGT	'ACGCCCC	CTATTG	ACGT	CAATGACGGT	AAATGGCCCG	CCTGGCATTA	TGCCCAGTAC	660
4.	10	ATG	ACCTTAT	GGGACT	TTCC	TACTTGGCAG	TACATCTACG	TATTAGTCAT	CGCTATTACC	720
		ATG	GTGATGC	GGTTTT	GGCA	GTACATCAAT	GGGCGTGGAT	AGCGTTTGA	CTCACGGGGA	780
4	4 5	ттп	CCAAGTC	TCCACC	CCAT	TGACGTCAAT	GGGAGTTTGT	TTTGGCACCA	AAATCAACGG	840
		GAC	TTTCCAA	AATGTC	GTAA	CAACTCCGCC	CCATTGACGC	AAATOGGCGG	TAGGCGTGTA	900
	50	CGG	TGGGAGG	ТСТАТА	TAAG	CAGAGCTGGG	TACGTGAACC	GTCAGATCGC	CTGGAGACGC	960
(50	CAT	CACAGAT	CTCTCA	.CCAT	GAGGGTCCCC	GCTCAGCTCC	TGGGGCTCCT	GCTGCTCTGG	1020
		СТС	CCAGGTG	CACGAT	GTGA	TGGTACCAAG	GTGGAAATCA	AACGTAGGT	GGCTGCACCA	1080

TCTGTCTTCA TCTTCCCGCC ATCTGATGAG CAGTTGAAAT CTGGAACTGC CTCTGTTGTG 1140

	TGCCTGCTGA	ATAACTTCTA	TCCCAGAGAG	CCAAAGTAC	AGTGGAAGGT	GGATAACGCC	1200
5	CTCCAATCGG	GTAACTCCCA	GGAGAGTGTC	ACAGAGCAGG	ACAGCAAGGA	CAGCACCTAC	1260
J	AGCCTCAGCA	GCACCCTGAC	GCTGAGCAAA	GCAGACTACG	AGAAACACAA	AGTCTACGCC	1320
	TGCGAAGTCA	CCCATCAGGG	CCTGAGCTCG	CCCGTCACAA	AGAGCTTCAA	CAGGGGAGAG	1380
10	TGTTGAATTC	AGATCCGTTA	ACGGTTACCA	ACTACCTAGA	CTGGATTCGT	GACAACATGC	1440
	GGCCGTGATA	TCTACGTATG	ATCAGCCTCG	ACTGTGCCTT	CTAGTTGCCA	GCCATCTGTT	1500
15	GTTTGCCCCT	CCCCCGTGCC	TTCCTTGACC	CTGGAAGGTG	CCACTCCCAC	TGTCCTTTCC	1560
19	TAATAAAATG	AGGAAATTGC	ATCGCATTGT	CTGAGTAGGT	GTCATTCTAT	TCTGGGGGGT	1620
•	GGGGTGGGGC	AGGACAGCAA	GGGGGAGGAT	TGGGAAGACA	ATAGCAGGCA	TGCTGGGGAT	1680
20	GCGGTGGGCT	CTATGGAACC	AGCTGGGGCT	CGACAGCTAT	GCCAAGTACG	CCCCCTATTG	1740
	ACGTCAATGA	CGGTAAATGG	CCCGCCTGGC	ATTATGCCCA	GTACATGACC	TTATGGGACT	1800
25	TTCCTACTTG	GCAGTACATC	TACGTATTAG	TCATCGCTAT	TACCATGGTG	ATGCGGTTTT	1860
20	GGCAGTACAT	CAATGGGCGT	GGATAGCGGT	TTGACTCACG	GGATTTCCA	AGTCTCCACC	1920
	CCATTGACGT	CAATGGGAGT	TTGTTTTGGC	ACCAAAATCA	AdGGGACTTT	CCAAAATGTC	1980
30	GTAACAACTC	CGCCCCATTG	ACGCAAATGG	GCGGTAGGCG	TGTACGGTGG	GAGGTCTATA	2040
	TAAGCAGAGC	TGGGTACGTC	CTCACATTCA	GTGATCAGCA	CTGAACACAG	ACCCGTCGAC	2100
35	ATGGGTTGGA	GCCTCATCTT	GCTCTTCCTT	GTCGCTGTTG	CTACCCGTGT	CGCTAGCACC	2160
00	AAGGGCCCAT	CGGTCTTCCC	CCTGGCACCC	TCCTCCAAGA	GCACCTCTGG	GGGCACAGCG	2220
	GCCCTGGGCT	GCCTGGTCAA	GGACTACTTC	CCCGAACCGG	TGACGGTGTC	GTGGAACTCA	2280
40	GGCGCCCTGA	CCAGCGGCGT	GCACACCTTC	CCGGCTGTCC	TACAGTC	AGGACTCTAC	2340
	TCCCTCAGCA	GCGTGGTGAC	CGTGCCCTCC	AGCAGCTTGG	GCACCCAGAC	CTACATCTGC	2400
45	AACGTGAATC	ACAAGCCCAG	CAACACCAAG	GTGGACAAGA	AAGCAGAGCC	CAAATCTTGT	2460
40	GACAAAACTC	ACACATGCCC	ACCGTGCCCA	GCACCTGAAC	тсстессес	ACCGTCAGTC	2520
	TTCCTCTTCC	CCCCAAAACC	CAAGGACACC	CTCATGATCT	CCCGGACCCC	TGAGGTCACA	2580
50	TGCGTGGTGG	TGGACGTGAG	CCACGAAGAC	CCTGAGGTCA	AGTTCAACTG	dTACGTGGAC	2640
	GGCGTGGAGG	TGCATAATGC	CAAGACAAAG	CCGCGGGAGG	AGCAGTACAA	CAGCACGTAC	2700
55	CGTGTGGTCA	GCGTCCTCAC	CGTCCTGCAC	CAGGACTGGC	TGAATGGCAA	GGAGTACAAG	2760
υυ	TGCAAGGTCT	CCAACAAAGC	CCTCCCAGCC	CCCATCGAGA	AAACCATCTC	CAAAGCCAAA	2820
	GGGCAGCCCC	GAGAACCACA	GGTGTACACC	CTGCCCCCAT	CCCGGGATGA	GCTGACCAAG	2880

	AACCAGGTCA	GCCTGACCTG	CCTGGTCAAA	GGCTTCTATC	CCAGCGACAT	CGCCGTGGAG	2940
5	TGGGAGAGCA	ATGGGCAOCC	GGAGAACAAC	TACAAGACCA	CGCCTCCCGT	GCTGGACTCC	3000
	GACGGCTCCT	TCTTCCTCT	CAGCAAGCTC	ACCGTGGACA	AGAGCAGGTG	GCAGCAGGGG	3060
	AACGTCTTCT	CATGCTCCGT	GATGCATGAG	GCTCTGCACA	ACCACTACAC	GCAGAAGAGC	3120
10	CTCTCCCTGT	CTCCGGGTAA	ATGAGGATCC	GTTAACGGTT	ACCAACTACC	TAGACTGGAT	3180
	TCGTGACAAC	ATGCGGCCGT	GATATCTACG	TATGATCAGC	CTCGACTGTG	CCTTCTAGTT	3240
15	GCCAGCCATC	TGTTGTTTGC	ссстфсссс	TGCCTTCCTT	GACCCTGGAA	GGTGCCACTC	3300
	CCACTGTCCT	TTCCTAATAA	AATGAGQAAA	TTGCATCGCA	TTGTCTGAGT	AGGTGTCATT	3360
•	CTATTCTGGG	GGGTGGGGTG	GGGCAGGAÇA	GCAAGGGGGA	GGATTGGGAA	GACAATAGCA	3420
20	GGCATGCTGG	GGATGCGGTG	GGCTCTATGG	AACCAGCTGG	GGCTCGACAG	CGCTGGATCT	3480
	CCCGATCCCC	AGCTTTGCTT	CTCAATTTCT	TATTTGCATA	ATGAGAAAAA	AAGGAAAATT	3540
25	AATTTTAACA	CCAATTCAGT	AGTTGATTGA	GCAAATGCGT	TGCCAAAAAG	GATGCTTTAG	3600
20	AGACAGTGTT	CTCTGCACAG	ATAAGGACAA	ACATTATTCA	GAGGGAGTAC	CCAGAGCTGA	3660
	GACTCCTAAG	CCAGTGAGTG	GCACAGCATT	CTAGGGAGAA	ATATGCTTGT	CATCACCGAA	3720
30	GCCTGATTCC	GTAGAGCCAC	ACCTTGGTAA	GGGCCAATCT	GCTCACACAG	GATAGAGAGG	3780
	GCAGGAGCCA	GGGCAGAGCA	TATAAGGTGA	GGTAGGATCA	GTTGCTCCTC	ACATTTGCTT	3840
35	CTGACATAGT	TGTGTTGGGA	GCTTGGATAG	CTTGGACAGC	TCAGGGCTGC	GATTTCGCGC	3900
	CAAACTTGAC	GGCAATCCTA	GCGTGAAGGC	TGGTAGGATT	TTATCCCCGC	TGCCATCATG	3960
	GTTCGACCAT	TGAACTGCAT	CGTCGCCGTG	TCCCAAAATA	TGGGGATTGG	CAAGAACGGA	4020
40	GACCTACCCT	GGCCTCCGCT	CAGGAACGAG	TTCAAGTACT	TCCAAGAAT	GACCACAACC	4080
	TCTTCAGTGG	AAGGTAAACA	GAATCTGGTG	ATTATGGGTA	GGAAAACCTG	GTTCTCCATT	4140
45	CCTGAGAAGA	ATCGACCTTT	AAAGGACAGA	ATTAATATAG	TTCTCAGTAG	AGAACTCAAA	4200
10	GAACCACCAC	GAGGAGCTCA	TTTTCTTGCC	AAAAGTTTGG	ATGATGCCT	AAGACTTATT	4260
	GAACAACCGG	AATTGGCAAG	TAAAGTAGAC	ATGGTTTGGA	TAGTCGGAGG	CAGTTCTGTT	4320
50	TACCAGGAAG	CCATGAATCA	ACCAGGCCAC	CTTAGACTCT	TTGTGACAAG	GATCATGCAG	4380
	GAATTTGAAA	GTGACACGTT	TTTCCCAGAA	ATTGATTTGG	GGAAATATAA	ACTICTCCCA	4440
55	GAATACCCAG	GCGTCCTCTC	TGAGGTCCAG	GAGGAAAAAG	GCATCAAGTA	TAAGTTTGAA	4500
	GTCTACGAGA	AGAAAGACTA	ACAGGAAGAT	GCTTTCAAGT	TCTCTGCTCC	CCTCCTAAAG	4560
	CTATGCATTT	TTATAAGACC	ATGGGACTTT	TGCTGGCTTT	AGATCAGCCT	CGACTGTGC	4620

		1					
	TTCTAGTTGC	CAGCCATCTG	TTGTTTGCCC	CTCCCCCGTG	CCTTCCTTGA	CCCTGGAAGG	4680
5	TGCCACTCCC	ACTGTCCTTT	ССТААТАААА	TGAGGAAATT	GCATCGCATT	GTCTGAGTAG	4740
J	GTGTCATTCT	ATTCTGGGG	GTGGGGTGGG	GCAGGACAGC	AAGGGGGAGG	ATTGGGAAGA	4800
	CAATAGCAGG	CATGCTGGG	ATGCGGTGGG	CTCTATGGAA	CCAGCTGGGG	CTCGAGCTAC	4860
10	TAGCTTTGCT	TCTCAATTTC	TTATTTGCAT	AATGAGAAAA	AAAGGAAAAT	TAATTTTAAC	4920
	ACCAATTCAG	TAGTTGATTG	AGCAAATGCG	TTGCCAAAAA	GGATGCTTTA	GAGACAGTGT	4980
15	TCTCTGCACA	GATAAGGACA	AACATTATTC	AGAGGGAGTA	CCCAGAGCTG	AGACTCCTAA	5040
10	GCCAGTGAGT	GGCACAGCAT	TCTAGGAGA	AATATGCTTG	TCATCACCGA	AGCCTGATTC	5100
	CGTAGAGCCA	CACCTTGGTA	AGGGCCAATC	TGCTCACACA	GGATAGAGAG	GGCAGGAGCC	5160
20	AGGGCAGAGC	ATATAAGGTG	AGGTAGGATC	AGTTGCTCCT	CACATTTGCT	TCTGACATAG	5220
	TTGTGTTGGG	AGCTTGGATC	GATCCTCTAT	GGTTGAACAA	GATGGATTGC	ACGCAGGTTC	5280
25	TCCGGCCGCT	TGGGTGGAGA	GGCTATTCGG	TATGACTGG	GCACAACAGA	CAATCGGCTG	5340
20	CTCTGATGCC	GCCGTGTTCC	GGCTGTCAGC	echeeecec	CCGGTTCTTT	TTGTCAAGAC	5400
	CGACCTGTCC	GGTGCCCTGA	ATGAACTGCA	GGACGAGGCA	GCGCGGCTAT	CGTGGCTGGC	5460
30	CACGACGGGC	GTTCCTTGCG	CAGCTGTGCT	CGACGATGTC	ACTGAAGCGG	GAAGGGACTG	5520
	GCTGCTATTG	GGCGAAGTGC	CGGGGCAGGA	TCTCCTGTCA	TCTCACCTTG	CTCCTGCCGA	5580
35	GAAAGTATCC	ATCATGGCTG	ATGCAATGCG	GCGGCTGCAT	ACGCTTGATC	CGGCTACCTG	5640
00	CCCATTCGAC	CACCAAGCGA	AACATCGCAT	CGAGCGAGCA	CGTACTCGGA	TGGAAGCCGG	5700
	TCTTGTCGAT	CAGGATGATC	TGGACGAAGA	GCATCAGGGG	CACGCGCCAG	CCGAACTGTT	5760
40	CGCCAGGCTC	AAGGCGCGCA	TGCCCGACGG	CGAGGATCTC	GTCGTGACCC	ATGGCGATGC	5820
	CTGCTTGCCG	AATATCATGG	TGGAAAATGG	CCGCTTTTCT	GGATTCATCG	ACTGTGGCCG	5880
45	GCTGGGTGTG	GCGGACCGCT	ATCAGGACAT	AGCGTTGGCT	ACCCGTGATA	TTGCTGAAGA	5940
40	GCTTGGCGGC	GAATGGGCTG	ACCGCTTCCT	CGTGCTTTAC	GGTATCGCCG	CTCCCGATTC	6000
	GCAGCGCATC	GCCTTCTATC	GCCTTCTTGA	CGAGTTCTTC	TGAGCGGGAC	TCTGGGGTTC	6060
50	GAAATGACCG	ACCAAGCGAC	GCCCAACCTG	CCATCACGAG	ATTTCGATTC	chcceccecc	6120
	TTCTATGAAA	GGTTGGGCTT	CGGAATCGTT	TTCCGGGACG	CCGGCTGGAT	GATCCTCCAG	6180
55	CGCGGGGATC	TCATGCTGGA	GTTCTTCGCC	CACCCCAACT	TGTTTATTGC	AGCTTATAAT	6240
JJ	GGTTACAAAT	AAAGCAATAG	CATCACAAAT	TTCACAAATA	AAGCATTTTT	TTCACTCAT	6300
	TCTAGTTGTG	GTTTGTCCAA	ACTCATCAAT	CTATCTTATC	ATGTCTGGAT	ceceeccece	6360

	ATCCCGTCGA	GAGCTTGGCG	TAATCATGGT	CATAGCTGTT	TCCTGTGTGA	AATTGTTATC	6420
5	CGCTCACAAT	TCCACACAAC	ATACGAGCCG	GAAGCATAAA	GTGTAAAGCC	TGGGGTGCCT	6480
· ·	AATGAGTGAG	CTAACTCACA	TTAATTGCGT	TGCGCTCACT	GCCCGCTTTC	CAGTCGGGAA	6540
	ACCTGTCGTG	CCAGCTGCAT	TAATGAATCG	GCCAACGCGC	GGGGAGAGGC	GGTTTGCGTA	6600
10	TTGGGCGCTC	TTCCGCTTCC	TCGCTQACTG	ÀCTCGCTGCG	CTCGGTCGTT	CGGCTGCGGC	6660
	GAGCGGTATC	AGCTCACTCA	AAGGCGGTAA	TACGGTTATC	CACAGAATCA	GGGGATAACG	6720
15	CAGGAAAGAA	CATGTGAGCA	AAAGGCCAGC	AAAAGGCCAG	GAACCGTAAA	AAGGCCGCGT	6780
10	TGCTGGCGTT	TTTCCATAGG	CTCCGCCCCC/	CTGACGAGCA	TCACAAAAAT	CGACGCTCAA	6840
•	GTCAGAGGTG	GCGAAACCCG	ACAGGACTAT	AAAGATACCA	GGCGTTTCCC	CCTGGAAGCT	6900
20	CCCTCGTGCG	CTCTCCTGTT	CCGACCCTGC	COCTTACCGG	ATACCTGTCC	GCCTTTCTCC	6960
	CTTCGGGAAG	CGTGGCGCTT	TCTCAATGCT	CACGCTGTAG	GTATCTCAGT	TCGGTGTAGG	7020
25	TCGTTCGCTC	CAAGCTGGGC	TGTGTGCACG	AACCCCCGT	TCAGCCCGAC	CGCTGCGCCT	7080
20	TATCCGGTAA	CTATCGTCTT	GAGTCCAACC	CGGTAAGACA	CGACTTATCG	CCACTGGCAG	7140
	CAGCCACTGG	TAACAGGATT	AGCAGAGCGA	GGTATGTAGG	CGGTGCTACA	GAGTTCTTGA	7200
30	AGTGGTGGCC	TAACTACGGC	TACACTAGAA	GGACAGTATT	TGGTATCTGC	GCTCTGCTGA	7260
	AGCCAGTTAC	CTTCGGAAAA	AGAGTTGGTA	GCTCTTGATC)	CGGCAAACAA	ACCACCGCTG	7320
35	GTAGCGGTGG	TTTTTTTGTT	TGCAAGCAGC	AGATTACGCG	CAGAAAAAAA	GGATCTCAAG	7380
00	AAGATCCTTT	GATCTTTTCT	ACGGGGTCTG	ACGCTCAGTG	GAACGAAAAC	TCACGTTAAG	7440
	GGATTTTGGT	CATGAGATTA	TCAAAAAGGA	TCTTCACCTA	GATCCTTTTA	ААТТААААТ	7500
40	GAAGTTTTAA	ATCAATCTAA	AGTATATATG	AGTAAACTTG	GTCTGACAGT	TACCAATGCT	7560
	TAATCAGTGA	GGCACCTATC	TCAGCGATCT	GTCTATTTCG	TTCATCCATA	GTTGCCTGAC	7620
45	TCCCCGTCGT	GTAGATAACT	ACGATACGGG	AGGGCTTACC	ATCTGGCCCC	AGTGCTGCAA	7680
10	TGATACCGCG	AGACCCACGC	TCACCGGCTC	CAGATTTATC	AGCAATAAAG	CAGCCAGCCG	7740
	GAAGGGCCGA	GCGCAGAAGT	GGTCCTGCAA	CTTTATCCGC	CTCCATCCAG	тстаттаатт	7800
50	GTTGCCGGGA	AGCTAGAGTA	AGTAGTTCGC	CAGTTAATAG	TTTGCGCAAC	GTTGTTGCCA	7860
	TTGCTACAGG	CATCGTGGTG	TCACGCTCGT	CGTTTGGTAT	GGCTTCATTC	AGCTCCGGTT	7920
55	CCCAACGATC	AAGGCGAGTT	ACATGATCCC	CCATGTTGTG	CAAAAAAGCG	GTTA CTCCT	7980
00	TCGGTCCTCC	GATCGTTGTC	AGAAGTAAGT	TGGCCGCAGT	GTTATCACTC	ATGGTTATGG	8040
	CAGCACTGCA	TAATTCTCTT	ACTGTCATGC	CATCCGTAAG	ATGCTTTTCT	GTGACTOGTG	8100

	•	\	
	AGTACTCAA	CCAAGTCATTC TGAGAATAGT GTATGCGGCG ACCGAGTTGC TCTTGCCCGG	8160
5	CGTCAATAC	G GATAATACC GCGCCACATA GCAGAACTTT AAAAGTGCTC ATCATTGGAA	8220
Ü	AACGTTCTT	C GGGGCGAAAA CTCTCAAGGA TCTTACCGCT GTTGAGATCC AGTTCGATGT	8280
	AACCCACTC	G TGCACCCAAC TGATCTTCAG CATCTTTTAC TTTCACCAGC GTTTCTGGGT	8340
10	GAGCAAAAA	C AGGAAGCAA AATGCCGCAA AAAAGGGAAT AAGGGCGACA CGGAAATGTT	8400
	GAATACTCA'	T ACTCTTCCTT TTTCAATATT ATTGAAGCAT TTATCAGGGT TATTGTCTCA	8460
15	TGAGCGGAT.	A CATATTTGAN TGTATTTAGA AAAATAAACA AATAGGGGTT CCGCGCACAT	8520
10	TTCCCCGAA	A AGTGCCACCT	8540
20	(3) INFO	RMATION FOR SEQ. ID. NO: 2:	
	(i)	SEQUENCE CHARACTERISTICS:	
		(A) LENGTH: 9209 bases	
25		(B) TYPE: nucleic acid (C) STRANDEDNESS: single	
		(D) TOPOLOGY: circular	
		(D) TOPOLOGI. cirquiai	
	· (ii)	MOLECULE TYPE: DNA (genomic)	
30	(ii)	MOLECULE TYPE: DNA (genomic)	
30	(iii)	MOLECULE TYPE: DNA (genomic) HYPOTHETICAL: yes no	
	(iii) (iv)	MOLECULE TYPE: DNA (genomic) HYPOTHETICAL: yes- no ANTI-SENSE: no	
30 35	(iii)	MOLECULE TYPE: DNA (genomic) HYPOTHETICAL: yes no	
	(iii) (iv) (ix)	MOLECULE TYPE: DNA (genomic) HYPOTHETICAL: yes- no ANTI-SENSE: no	60
	(iii) (iv) (ix) GACGTCGCGG	MOLECULE TYPE: DNA (genomic) HYPOTHETICAL: yes no ANTI-SENSE: no SEQUENCE DESCRIPTION: SEQ. ID. NO ₁ : 2:	60 120
35	(iii) (iv) (ix) GACGTCGCGG	MOLECULE TYPE: DNA (genomic) HYPOTHETICAL: yes no ANTI-SENSE: no SEQUENCE DESCRIPTION: SEQ. ID. NO: 2: G CCGCTCTAGG CCTCCAAAAA AGCCTCCTCA CTACTTCTGG AATAGCTCAG	
35 40	(iii) (iv) (ix) GACGTCGCGG AGGCCGAGGG GGAGAATGGG	MOLECULE TYPE: DNA (genomic) HYPOTHETICAL: yes 10 ANTI-SENSE: no SEQUENCE DESCRIPTION: SEQ. ID. NO; 2: G CCGCTCTAGG CCTCCAAAAA AGCCTCCTCA CTACTTCTGG AATAGCTCAG C GGCCTCGGCC TCTGCATAAA TAAAAAAAAAT TAGTCAGCCA TGCATGGGGC	120
35	(iii) (iv) (ix) GACGTCGCGG AGGCCGAGGG GGAGAATGGG ATGGTTGCTG	MOLECULE TYPE: DNA (genomic) HYPOTHETICAL: yes 10 ANTI-SENSE: no SEQUENCE DESCRIPTION: SEQ. ID. NO; 2: G CCGCTCTAGG CCTCCAAAAA AGCCTCCTCA CTACTTCTGG AATAGCTCAG C GGCCTCGGCC TCTGCATAAA TAAAAAAAAT TAGTCAGCCA TGCATGGGGC G CGGAACTGGG CGGAGTTAGG GGCGGGATGG GCGGAGTTAG GGGCGGACT	120 180
35 40	(iii) (iv) (ix) GACGTCGCGG AGGCCGAGGG GGAGAATGGG ATGGTTGCTG	MOLECULE TYPE: DNA (genomic) HYPOTHETICAL: yes no SEQUENCE DESCRIPTION: SEQ. ID. NO ₁ : 2: G CCGCTCTAGG CCTCCAAAAA AGCCTCCTCA CTACTTCTGG AATAGCTCAG C GGCCTCGGCC TCTGCATAAA TAAAAAAAAT TAGTCAGCCA TGCATGGGGC G CGGAACTGGG CGGAGTTAGG GGCGGGATGG GCGGAGTTAG GGGCGGGACT G ACTAATTGAG ATGCATGCTT TGCATACTTC TGCCTGG GGAGCCTGGG	120 180 240
35 40	(iii) (iv) (ix) GACGTCGCGGGGGGGGGGGGGGGGGGGGGGGGGGGGGG	MOLECULE TYPE: DNA (genomic) HYPOTHETICAL: yes no ANTI-SENSE: no SEQUENCE DESCRIPTION: SEQ. ID. NO ₁ : 2: G CCGCTCTAGG CCTCCAAAAA AGCCTCCTCA CTACTTCTGG AATAGCTCAG C GGCCTCGGCC TCTGCATAAA TAAAAAAAAT TAGTCAGCCA TGCATGGGGC G CGGAACTGGG CGGAGTTAGG GGCGGGATGG GCGGAGTTAG GGGCGGGACT G ACTAATTGAG ATGCATGCTT TGCATACTTC TGCCTGCTG GGAGCCTGGG C ACCTGGTTGC TGACTAATTG AGATGCATGC TTTGCATACT TCTGCCTGCT	120 180 240 300
35 40 45	(iii) (iv) (ix) GACGTCGCGGGAGGCCTGGAGAATGGCTTCCAGGGGAGCCTGAGGCCTGAGGAGGCCTGAGGAGGAGCCTGAGGAGGAGCCTGAGGAGGAGCCTGAGTTATTAAGGAGGAGCCTGAGTTATTAAGGAGAGCCTGAGTTATTAAGGAGAGCCTGAGTTATTAAGGAGGAGCCTGAGTTATTAAGGAGAGCCTGAGTTATTAAG	MOLECULE TYPE: DNA (genomic) HYPOTHETICAL: yes no SEQUENCE DESCRIPTION: SEQ. ID. NO; 2: G CCGCTCTAGG CCTCCAAAAA AGCCTCCTCA CTACTTCTGG AATAGCTCAG C GGCCTCGGCC TCTGCATAAA TAAAAAAAAT TAGTCAGCCA TGCATGGGGC G CGGAACTGGG CGGAGTTAGG GGCGGGATGG GCGGAGTTAG GGGCGGGACT G ACTAATTGAG ATGCATGCTT TGCATACTTC TGCCTGCT GGAGCCTGGG C ACCTGGTTGC TGACTAATTG AGATGCATGC TTTTGCATACT TCTGCCTGCT G GGGACTTTCC ACACCCTAAC TGACACACAT TCCACAGAAT TAATTCCCCT	120 180 240 300 360
35 40 45	(iii) (iv) (ix) GACGTCGCGGGGGGGGGGGGGGGGGGGGGGGGGGGGGG	MOLECULE TYPE: DNA (genomic) HYPOTHETICAL: yes no SEQUENCE DESCRIPTION: SEQ. ID. NO ₁ : 2: G CCGCTCTAGG CCTCCAAAAA AGCCTCCTCA CTACTTCTGG AATAGCTCAG C GGCCTCGGCC TCTGCATAAA TAAAAAAAAAT TAGTCAGCCA TGCATGGGGC G CGGAACTGGG CGGAGTTAGG GGCGGGATGG GCGGAGTTAG GGGCGGGACT G ACTAATTGAG ATGCATGCTT TGCATACTTC TGCCTGCTG GGAGCCTGGG C ACCTGGTTGC TGACTAATTG AGATGCATGC TTTGCATACT TCTGCCTGCT G GGGACTTTCC ACACCCTAAC TGACAACACAT TCCACAGAAT TAATTCCCCT T AGTAATCAAT TACGGGGTCA TTAGTTCATA GCCCATATAT GGAGTTCCGC	120 180 240 300 360 420

	TGGGTGGACT	ATTTACGGTA	AACTGCCCAC	TTGGCAGTAC	ATCAAGTGTA	TCATATGCCA	600
		СТАТТСАССТ					660
5		GGGACTTTCC					720
J							
	ATGGTGATGC	GGTTTTGGCA	GTACATCAAT	GGGCGTGGAT	AGCGGTTTGA	CTCACGGGGA	780
10	TTTCCAAGTC	TCCACCCCAT	TGACGTCAAT	GGGAGTTTGT	TTTGGCACCA	AAATCAACGG	840
	GACTTTCCAA	AATGTCGTAA	CAACTCCGCC \	CCATTGACGC	AAATGGGCGG	TAGGCGTGTA	900
	CGGTGGGAGG	TCTATATAAG	CAGAGCTGGG	TACGTGAACC	GTCAGATCGC	CTGGAGACGC	960
15	CATCACAGAT	CTCTCACTAT	GGATTTTCAG	GTGCAGATTA	TCAGCTTCCT	GCTAATCAGT	1020
	GCTTCAGTCA	TAATGTCCAG	AGGACAAATT	GTTCTCTCCC	AGTCTCCAGC	AATCCTGTCT	1080
20	GCATCTCCAG	GGGAGAAGGT	CACAATGACT	TGCAGGGCCA	GCTCAAGTGT	AAGTTACATC	1140
20	CACTGGTTCC	AGCAGAAGCC	AGGATCCTCC	CCCAAACCCT	GGATTTATGC	CACATCCAAC	1200
	CTGGCTTCTG	GAGTCCCTGT	TCGCTTCAGT	GGCAGTGGGT	CTGGGACTTC	TTACTCTCTC	1260
25	ACAATCAGCA	GAGTGGAGGC	TGAAGATGCT	GCCACTTATT	ACTGCCAGCA	GTGGACTAGT	1320
	AACCCACCCA	CGTTCGGAGG	GGGGACCAAG	CTGGAAATCA	AACGTACGGT	GGCTGCACCA	1380
30	TCTGTCTTCA	TCTTCCCGCC	ATCTGATGAG	CAGTTGAAAT	CTGGAACTGC	CTCTGTTGTG	1440
30	TGCCTGCTGA	ATAACTTCTA	TCCCAGAGAG	GCCAAGTAC	AGTGGAAGGT	GGATAACGCC	1500
·	CTCCAATCGG	GTAACTCCCA	GGAGAGTGTC	ACAGAGCAGG	ACAGCAAGGA	CAGCACCTAC	1560
35	AGCCTCAGCA	GCACCCTGAC	GCTGAGCAAA	GCAGACTACG	AGAAACACAA	AGTCTACGCC	1620
	TGCGAAGTCA	CCCATCAGGG	CCTGAGCTCG	CCCGTCACAA	AGAGCTTCAA	CAGGGGAGAG	1680
40	TGTTGAATTC	AGATCCGTTA	ACGGTTACCA	ACTACCTAGA	CTGGATTCGT	GACAACATGC	1740
40	GGCCGTGATA	TCTACGTATG	ATCAGCCTCG	ACTGTGCCTT	CTAGTTGCCA	GCCATCTGTT	1800
	GTTTGCCCCT	CCCCGTGCC	TTCCTTGACC	CTGGAAGGTG	CCACTCCCAC	TGTCCTTTCC	1860
4 5	TAATAAAATG	AGGAAATTGC	ATCGCATTGT	CTGAGTAGGT	GTCATTCTAT	TCTGGGGGGT	1920
	GGGGTGGGGC	AGGACAGCAA	GGGGAGGAT	TGGGAAGACA	ATAGCAGGGA	TGCTGGGGAT	1980
50	GCGGTGGGCT	CTATGGAACC	AGCTGGGGCT	CGACAGCTAT	GCCAAGTACG	CCCCCTATTG	2040
50	ACGTCAATGA	CGGTAAATGG	CCCGCCTGGC	ATTATGCCCA	GTACATGACC	TTATGGGACT	2100
	TTCCTACTTG	GCAGTACATC	TACGTATTAG	TCATCGCTAT	TACCATGGTG	ATOCGGTTTT	2160
55	GGCAGTACAT	CAATGGGCGT	GGATAGCGGT	TTGACTCACG	GGGATTTCCA	AGTCTCCACC	2220
	CCATTGACGT	CAATGGGAGT	TTGTTTTGGC	ACCAAAATCA	ACGGGACTTT	CCAAAATGTC	2280

	GTAACAACTC	CGCCCCATTG	ACGCAAATGG	GCGGTAGGCG	TGTACGGTGG	GAGGTCTATA	2340
	TAAGCAGAGC	TGGGTACGTC	CTCACATTCA	GTGATCAGCA	CTGAACACAG	ACCCGTCGAC	2400
5	ATGGGTTGGA	GCTCATCTT	GCTCTTCCTT	GTCGCTGTTG	CTACGCGTGT	CCTGTCCCAG	2460
	GTACAACTGC	AGCAGCCTGG	GGCTGAGCTG	GTGAAGCCTG	GGGCCTCAGT	GAAGATGTCC	2520
10	TGCAAGGCTT	CTGGCTACAC	ATTTACCAGT	TACAATATGC	ACTGGGTAAA	ACAGACACCT	2580
10	GGTCGGGGCC	TGGAATGOAT	TGGAGCTATT	TATCCCGGAA	ATGGTGATAC	TTCCTACAAT	2640
	CAGAAGTTCA	AAGGCAAGGC	CACATTGACT	GCAGACAAAT	CCTCCAGCAC	AGCCTACATG	2700
15	CAGCTCAGCA	GCCTGACATC	TGAGGACTCT	GCGGTCTATT	ACTGTGCAAG	ATCGACTTAC	2760
	TACGGCGGTG	ACTGGTACTT	CAATGTCTGG	GGCGCAGGGA	CCACGGTCAC	CGTCTCTGCA	2820
20	GCTAGCACCA	AGGGCCCATC	GGTCTTCCCC	CTGGCACCCT	CCTCCAAGAG	CACCTCTGGG	2880
20	GGCACAGCGG	CCCTGGGCTG	CCTGGTC	GACTACTTCC	CCGAACCGGT	GACGGTGTCG	2940
	TGGAACTCAG	GCGCCCTGAC	CAGCGGCGT	CACACCTTCC	CGGCTGTCCT	ACAGTCCTCA	3000
25	GGACTCTACT	CCCTCAGCAG	CGTGGTGACC	dTGCCCTCCA	GCAGCTTGGG	CACCCAGACC	3060
	TACATCTGCA	ACGTGAATCA	CAAGCCCAGC	AACACCAAGG	TGGACAAGAA	AGCAGAGCCC	3120
30	AAATCTTGTG	ACAAAACTCA	CACATGCCCA	ссетосска	CACCTGAACT	CCTGGGGGGA	3180
50	CCGTCAGTCT	TCCTCTTCCC	CCCAAAACCC	AAGGACACCC	TCATGATCTC	CCGGACCCCT	3240
	GAGGTCACAT	GCGTGGTGGT	GGACGTGAGC	CACGAAGAC	CTGAGGTCAA	GTTCAACTGG	3300
35	TACGTGGACG	GCGTGGAGGT	GCATAATGCC	AAGACAAAGC	GCGGGAGGA	GCAGTACAAC	3360
	AGCACGTACC	GTGTGGTCAG	CGTCCTCACC	GTCCTGCACC	AGCACTGGCT	GAATGGCAAG	3420
40	GAGTACAAGT	GCAAGGTCTC	CAACAAAGCC	CTCCCAGCCC	CCATCGAGAA	AACCATCTCC	3480
10	AAAGCCAAAG	GGCAGCCCCG	AGAACCACAG	GTGTACACCC	TGCCCCCATC	CCGGGATGAG	3540
	CTGACCAAGA	ACCAGGTCAG	CCTGACCTGC	CTGGTCAAAG	GCTTCTATCC	CAGCGACATC	3600
45	GCCGTGGAGT	GGGAGAGCAA	TGGGCAGCCG	GAGAACAACT	ACAAGACCAC	CCTCCCGTG	3660
	CTGGACTCCG	ACGGCTCCTT	CTTCCTCTAC	AGCAAGCTCA	CCGTGGACAA	GACCAGGTGG	3720
50	CAGCAGGGGA	ACGTCTTCTC	ATGCTCCGTG	ATGCATGAGG	CTCTGCACAA	CCACTACACG	3780
00	CAGAAGAGCC	TCTCCCTGTC	TCCGGGTAAA	TGAGGATCCG	TTAACGGTTA	CCAACTACCT	3840
	AGACTGGATT	CGTGACAACA	TGCGGCCGTG	ATATCTACGT	ATGATCAGCC	TCGACTGTC	3900
55	CTTCTAGTTG	CCAGCCATCT	GTTGTTTGCC	CCTCCCCGT	GCCTTCCTTG	ACCCTGGAAG	3960
	GTGCCACTCC	CACTGTCCTT	TCCTAATAAA	ATGAGGAAAT	TGCATCGCAT	TGTCTGAGTA	4020

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GGTGTCATTC	TATTCTGGGG	GGTGGGGTGG	GGCAGGACAG	CAAGGGGGAG	GATTGGGAAG	4080
ACAATACCAG	GCATGCTGGG	GATGCGGTGG	GCTCTATGGA	ACCAGCTGGG	GCTCGACAGC	4140
GCTGGATCTC	CCGATCCCCA	GCTTTGCTTC	TCAATTTCTT	ATTTGCATAA	TGAGAAAAA	4200
AGGAAAATTA	ATTTTAACAC	CAATTCAGTA	GTTGATTGAG	CAAATGCGTT	GCCAAAAAGG	4260
ATGCTTTAGA	GACAGTGTTC	TCTGCACAGA	TAAGGACAAA	CATTATTCAG	AGGGAGTACC	4320
CAGAGCTGAG	ACTCTAAGC	CAGTGAGTGG	CACAGCATTC	TAGGGAGAAA	TATGCTTGTC	4380
ATCACCGAAG	CCTGATTCCG	TAGAGCCACA	CCTTGGTAAG	GGCCAATCTG	CTCACACAGG	4440
ATAGAGAGGG	CAGGAGCGAG	GGCAGAGCAT	ATAAGGTGAG	GTAGGATCAG	TTGCTCCTCA	4500
CATTTGCTTC	TGACATAGTT	GTGTTGGGAG	CTTGGATAGC	TTGGACAGCT	CAGGGCTGCG	4560
ATTTCGCGCC	AAACTTGACG	CAATCCTAG	CGTGAAGGCT	GGTAGGATTT	TATCCCCGCT	4620
GCCATCATGG	TTCGACCATT	GAACTGCATC	GTCGCCGTGT	CCCAAAATAT	GGGGATTGGC	4680
AAGAACGGAG	ACCTACCCTG	GCCTCCGCTC	AGGAACGAGT	TCAAGTACTT	CCAAAGAATG	4740
ACCACAACCT	CTTCAGTGGA	AGGTAAACAG	AATCTGGTGA	TTATGGGTAG	GAAAACCTGG	4800
TTCTCCATTC	CTGAGAAGAA	TCGACCTTTA	AAGGACAGAA	TTAATATAGT	TCTCAGTAGA	4860
GAACTCAAAG	AACCACCACG	AGGAGCTCAT	TTTCTTGCCA	AAAGTTTGGA	TGATGCCTTA	4920
AGACTTATTG	AACAACCGGA	ATTGGCAAGT	AAGTAGACA	TGGTTTGGAT	AGTCGGAGGC	4980
AGTTCTGTTT	ACCAGGAAGC	CATGAATCAA	CCAGGCCACC	TTAGACTCTT	TGTGACAAGG	5040
ATCATGCAGG	AATTTGAAAG	TGACACGTTT	TTCCCAGAAA	TTGATTTGGG	GAAATATAAA	5100
CTTCTCCCAG	AATACCCAGG	CGTCCTCTCT	GAGGTCCAGG	AGGAAAAAGG	CATCAAGTAT	5160
AAGTTTGAAG	TCTACGAGAA	GAAAGACTAA	CAGGAAGAT	CTTTCAAGTT	CTCTGCTCCC	5220
CTCCTAAAGC	TATGCATTTT	TATAAGACCA	TGGGACTTTT	CTGGCTTTA	GATCAGCCTC	5280
GACTGTGCCT	TCTAGTTGCC	AGCCATCTGT	TGTTTGCCCC	тефессетве	CTTCCTTGAC	5340
CCTGGAAGGT	GCCACTCCCA	CTGTCCTTTC	СТААТААААТ	GAGGAAATTG	CATCGCATTG	5400
TCTGAGTAGG	TGTCATTCTA	TTCTGGGGGG	TGGGGTGGG	CAGGACAGCA	AGGGGGAGGA	5460
TTGGGAAGAC	AATAGCAGGC	ATGCTGGGGA	TGCGGTGGGC	TCTATGGAAC	CAGCTGGGGC	5520
TCGAGCTACT	AGCTTTGCTT	CTCAATTTCT	TATTTGCATA	ATGAGAAAAA	AAGGAAAATT	5580
AATTTTAACA	CCAATTCAGT	AGTTGATTGA	GCAAATGCGT	TGCCAAAAAG	GATGCTTTAG	5640
AGACAGTGTT	CTCTGCACAG	ATAAGGACAA	ACATTATTCA	GAGGGAGTAC	CCACAGCTGA	5700
GACTCCTAAG	CCAGTGAGTG	GCACAGCATT	CTAGGGAGAA	ATATGCTTGT	CATCACCGAA	5760

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GCCTGATTCC	GTAGAGCCAC	ACCTTGGTAA	GGGCCAATCT	GCTCACACAG	GATAGAGAGG	5820
GCAGGAGCCA	GGGCAGAGCA	TATAAGGTGA	GGTAGGATCA	GTTGCTCCTC	ACATTTGCTT	5880
CTGACATAGT	TGTGTTGGGA	GCTTGGATCG	ATCCTCTATG	GTTGAACAAG	ATGGATTGCA	5940
CGCAGGTTCT	CCGGCCGCTT	GGGTGGAGAG	GCTATTCGGC	TATGACTGGG	CACAACAGAC	6000
AATCGGCTGC	TCTGATGCCG	CCGTGTTCCG	GCTGTCAGCG	CAGGGGCGCC	CGGTTCTTTT	6060
TGTCAAGACC	GACCTGTCCG	GTGCCCTGAA	TGAACTGCAG	GACGAGGCAG	CGCGGCTATC	6120
GTGGCTGGCC	ACGACGGGCG	TTCCTTGCGC	AGCTGTGCTC	GACGTTGTCA	CTGAAGCGGG	6180
AAGGGACTGG	CTGCTATTGG	GCGAAGTGCC	GGGGCAGGAT	CTCCTGTCAT	CTCACCTTGC	6240
TCCTGCCGAG	AAAGTATCC	TCATGGCTGA	TGCAATGCGG	CGGCTGCATA	CGCTTGATCC	6300
GGCTACCTGC	CCATTCGACC	CCAAGCGAA	ACATCGCATC	GAGCGAGCAC	GTACTCGGAT	6360
GGAAGCCGGT	CTTGTCGATC	AGGATGATCT	GGACGAAGAG	CATCAGGGGC	TCGCGCCAGC	6420
CGAACTGTTC	GCCAGGCTCA	AGGCCCCAT	GCCCGACGGC	GAGGATCTCG	TCGTGACCCA	6480
TGGCGATGCC	TGCTTGCCGA	ATATCATGGT	GGAAAATGGC	CGCTTTTCTG	GATTCATCGA	6540
CTGTGGCCGG	CTGGGTGTGG	CGGACCGCTA	TCAGGACATA	GCGTTGGCTA	CCCGTGATAT	6600
TGCTGAAGAG	CTTGGCGGCG	AATGGGCTGA	ССССТТССТС	GTGCTTTACG	GTATCGCCGC	6660
TCCCGATTCG	CAGCGCATCG	CCTTCTATCG	COTTCTTGAC	GAGTTCTTCT	GAGCGGGACT	6720
CTGGGGTTCG	AAATGACCGA	CCAAGCGACG	CCCAACCTGC	CATCACGAGA	TTTCGATTCC	6780
ACCGCCGCCT	TCTATGAAAG	GTTGGGCTTC	GGAATCGTTT	TCCGGGACGC	CGGCTGGATG	6840
ATCCTCCAGC	GCGGGGATCT	CATGCTGGAG	TTCTTCGCCC	ACCCCAACTT	GTTTATTGCA	6900
GCTTATAATG	GTTACAAATA	AAGCAATAGC	ATCACAAATT	TCACAAATAA	AGCATTTTTT	6960
TCACTGCATT	CTAGTTGTGG	TTTGTCCAAA	CTCATCAATC	TATCTTATCA	TGTCTGGATC	7020
GCGGCCGCGA	TCCCGTCGAG	AGCTTGGCGT	AATCATGGTC	ATACCTGTTT	CCTGTGTGAA	7080
ATTGTTATCC	GCTCACAATT	CCACACAACA	TACGAGCCGG	AAGCATAAAG	TGTAAAGCCT	7140
GGGGTGCCTA	ATGAGTGAGC	TAACTCACAT	TAATTGCGTT	GCGCTCACTG	CCCGCTTTCC	7200
AGTCGGGAAA	CCTGTCGTGC	CAGCTGCATT	AATGAATCGG	CCAACGCGCG	GGGAGAGGCG	7260
GTTTGCGTAT	TGGGCGCTCT	TCCGCTTCCT	CGCTCACTGA	CTCGCTGCGC	TCGGTCGTTC	7320
GGCTGCGGCG	AGCGGTATCA	GCTCACTCAA	AGGCGGTAAT	ACGGTTATCC	ACAGAATCAG	7380
GGGATAACGC	AGGAAAGAAC	ATGTGAGCAA	AAGGCCAGCA	AAAGGCCAGG	аассфтаааа	7440
AGGCCGCGTT	GCTGGCGTTT	TTCCATAGGC	TCCGCCCCCC	TGACGAGCAT	CACAAAAATC	7500

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GACCTCAAG	TCAGAGGTGG	CGAAACCCGA	CAGGACTATA	AAGATACCAG	GCGTTTCCCC	7560
CTGGAAGCTC	CCTCGTGCGC	TCTCCTGTTC	CGACCCTGCC	GCTTACCGGA	TACCTGTCCG	7620
сстттстссс	TTCGGGAAGC	GTGGCGCTTT	CTCAATGCTC	ACGCTGTAGG	TATCTCAGTT	7680
CGGTGTAGGT	CGTTCGCTCC	AAGCTGGGCT	GTGTGCACGA	ACCCCCCGTT	CAGCCCGACC	7740
GCTGCGCCTT	ATCCGGTAAC	TATCGTCTTG	AGTCCAACCC	GGTAAGACAC	GACTTATCGC	7800
CACTGGCAGC	AGCCACTGGT	AACAGGATTA	GCAGAGCGAG	GTATGTAGGC	GGTGCTACAG	7860
AGTTCTTGAA	GTGGTGGCCT	AACTACGGCT	ACACTAGAAG	GACAGTATTT	GGTATCTGCG	7920
CTCTGCTGAA	GCCAGTTACC	TTCGGAAAAA	GAGTTGGTAG	CTCTTGATCC	GGCAAACAAA	7980
CCACCGCTGG	TAGCGGTGGT	TTTTTTGTTT	GCAAGCAGCA	GATTACGCGC	AGAAAAAAAG	8040
GATCTCAAGA	AGATCCTTTG	ATCTTTTCTA	CGGGGTCTGA	CGCTCAGTGG	AACGAAAACT	8100
CACGTTAAGG	GATTTTGGTC	ATGAGATTAT	CAAAAAGGAT	CTTCACCTAG	ATCCTTTTAA	8160
ATTAAAAATG	AAGTTTTAAA	TCAATCTAAA	GTATATATGA	GTAAACTTGG	TCTGACAGTT	8220
ACCAATGCTT	AATCAGTGAG	GCACCTATCT	CAGCGATCTG	TCTATTTCGT	TCATCCATAG	8280
TTGCCTGACT	CCCCGTCGTG	TAGATÀACTA	CGATACGGGA	GGGCTTACCA	TCTGGCCCCA	8340
GTGCTGCAAT	GATACCGCGA	GACCCACCT	CACCGGCTCC	AGATTTATCA	GCAATAAACC	8400
AGCCAGCCGG	AAGGCCGAG	CGCAGAAGTG	GTCCTGCAAC	TTTATCCGCC	TCCATCCAGT	8460
CTATTAATTG	TTGCCGGGAA	GCTAGAGTAA	GTAGTTCGCC	AGTTAATAGT	TTGCGCAACG	8520
TTGTTGCCAT	TGCTACAGGC	ATCGTGGTGT	CACGCTCGTC	GTTTGGTATG	GCTTCATTCA	8580
GCTCCGGTTC	CCAACGATCA	AGGCGAGTTA	CATGATCCCC	CATGTTGTGC	AAAAAGCGG	8640
TTAGCTCCTT	CGGTCCTCCG	ATCGTTGTCA	GAAGTAAGTT	GGCCGCAGTG	TTATCACTCA	8700
TGGTTATGGC	AGCACTGCAT	AATTCTCTTA	CTGTCATGCC	ATCCGTAAGA	TGCTTTTCTG	8760
TGACTGGTGA	GTACTCAACC	AAGTCATTCT	GAGAATAGTĠ	TATGCGGCGA	CCGAGTTGCT	8820
CTTGCCCGGC	GTCAATACGG	GATAATACCG	CGCCACATAG	dAGAACTTTA	AAAGTGCTCA	8880
TCATTGGAAA	ACGTTCTTCG	GGGCGAAAAC	TCTCAAGGAT	CTRACCGCTG	TTGAGATCCA	8940
GTTCGATGTA	ACCCACTCGT	GCACCCAACT	GATCTTCAGC	ATCTTTACT	TTCACCAGCG	9000
TTTCTGGGTG	AGCAAAAACA	GGAAGGCAAA	ATGCCGCAAA	AAAGGGAATA	AGGGCGACAC	9060
GGAAATGTTG	AATACTCATA	CTCTTCCTTT	TTCAATATTA	TTGAAGCATT	TATCAGGGTT	9120
ATTGTCTCAT	GAGCGGATAC	ATATTTGAAT	GTATTTAGAA	AAATAAACAA	ATAGGGGTTC	9180
CGCGCACATT	TCCCCGAAAA	GTGCCACCT				9209

	(4)	INFO	ORMATION FOR SEQ. ID. NO: 3:	
		(i)	SEQUENCE CHARACTERISTICS:	
5			 (A) LENGTH: 54 bases (B) TYPE: nucleic acid (C) STRANDEDNESS: single (D) TOPOLOGY: linear 	
10		(ii)	MOLECULE TYPE: DNA (genomic)	
a		(iii)	HYPOTHETICAL: yes ^0	
. 45		(iv)	ANTI-SENSE: no	
15 ~		(ix)	SEQUENCE DESCRIPTION: SEQ. ID. NO ₁ : 3:	
20			TC ACA GAT CTC TCA CCA TGG ATT TTC AGG TBC AGA TTA TCA GCT	52 2.54
2	(5)	INFO	DRMATION FOR SEQ. ID. NO: 4:	
25		(i)	SEQUENCE CHARACTERISTICS:	
			 (A) LENGTH: 30 bases (B) TYPE: nucleic acid (C) \$TRANDEDNESS: single (D) TOPOLOGY: linear 	
30		(ii)	MOLECULE TYPE: DNA (genomic)	
~		(iii)	HYPOTHETICAL: yes no	
35		(iv)	ANTI-SENSE: yes	
0		(ix)	SEQUENCE DESCRIPTION: SEQ. ID. NO ₁ : 4:	
2 40		TO	GC AGC ATC CGT ACG TTT GAT TTC CAG CTT 3	30
a a	(6)	INFO	DRMATION FOR SEQ. ID. NO: 5:	
45		(i)	SEQUENCE CHARACTERISTICS:	
			(A) LENGTH: 384 bases (B) TYPE: nucleic acid (C) STRANDEDNESS: single	
50			(D) TOPOLOGY: linear	

		(ii) MOLECULE TYPE: DNA (genomic)																	
		(iii) HYPOTHETICAL: yes																	
	5		(iv)	A	NTI [']	SEN	ISE:	no											
a			(ix)	SI	EQU	ÉNO	CE I	ESC	CRIF	TIO	N: 8	SEQ.	ID.	NO	: 5:				
	10	3.000	a				a. a		* ***		mma	ome.	C. T.	1 TO	1 O.T.	0.07	ДО	oma.	F.1
	10			TTT		/													51
		ATA	ATG	TCC	AGA	GGĠ	CAA	ATT	GTT	CTC	TCC	CAG	TCT	CCA	GCA	ATC	CTG	TCT	102
	15	GCA	TCT	CCA	GGG	GAG	AAG	GTC	ACA	ATG	ACT	TGC	AGG	GCC	AGC	TCA	AGT	GTA	153
٠		AGT	TAC	ATC	CAC	TGG	TTC	CAG	CAG	AAG	CCA	GGA	TCC	TCC	CCC	AAA	CCC	TGG	204
		ATT	TAT	GCC	ACA	TCC	AAC	CTG	GCT	TCT	GGA	GTC	CCT	GTT	CGC	TTC	AGT	GGC	255
	20	AGT	GGG	TCT	GGG	ACT	TCF	TAC	TCT	CTC	ACA	ATC	AGC	AGA	GTG	GAG	GCT	GAA	306
		GAT	GCT	GCC	ACT	TAT	PAT	TGC	CAG	CAG	TGG	ACT	AGT	AAC	CCA	CCC	ACG	TTC	357
		GGA	GGG	GGG	ACC	AAG	CTG	GAA	ATC	AAA									384
	25																		
<i>م</i>		(7) INFORMATION FOR SEQ. ID. NO ₍ : 6:																	
-	30		(i) SEQUENCE CHARACTERISTICS:																
				(A	.)	I.EN	NGT:	н. ⟩	.7 ha	Ses									
				(B	3)	TYF	PE : 1	nucl	eic a	cid									
				(C (D	-		RAN] POL				ungl	e							
	35																		
			(ii) MOLECULE TYPE: \DNA (genomic)																
			(iii)	(iii) HYPOTHETICAL: yes															
	4 0	40 (iv) ANTI-SENSE: no																	
		(ix) SEQUENCE DESCRIPTION: SEQ. ID. NO.: 6:																	
a/	45		/5m (GCG G	CT (CCC A	ACG (CGT (GTC (TG\	rcc (CAG <	3						27

\sim	(8)	INFORMATION FOR SEQ. ID. NO(: 7:															
-		(i)	SEQU	ENCE	CHAI	RAC	TEI	RIST	CICS	:							
5			(A) (B) (C) (D)	LENG' TYPE: STRAN	nucle NDED	eic a NES	cid SS:		le								
10		(ii)	MOLI	ECULE	TYPE	E: D	NA	(ger	omi	c)							
		(iii)	HYPC	THETI	CAL:	yes	1										
15		(iv)	(iv) ANTI-SENSE: yes														
ر	(ix) SEQUENCE DESCRIPTION: SEQ. ID. NO ₄ : 7:																
20		-5+ GG (G/C) - TGT - TGT - GQT - AGC - TC (A/C) - (A/G) GA , GAC - (G/A) GT - GA - 3- 29															
	(9)	INFO	ORMAT	ION FO	R SE	Q. I	D. N	10 :	8:								
05	,	(i)	SEQU	ENCE	CHA	RÅC'	TEI	RIST	ics	:							
25			(B)	LENG' TYPE: STRAN	nucle VDED	eic a NES	cid SS:\	sing	le								
30	(ii)		MOLI	MOLECULE TYPE: DNA (genomic)													
		(iii)	HYPC	HYPOTHETICAL: yes													
35		(iv)	ANTI-	SENSE	E: no												
L		(ix)	SEQU	ENCE	DESC	CRIP	TIC	N:	SEG	ID.	. NO	y: 8:					
40	ATG	GGT TG	GG AGC (CTC ATC	T'IG C	CTC :	ГТС	CTT	GTC	GCT	GTT	GCT	ACG	CGT	GTC	51	
	CTG	TCC CA	AG GTA (CAA CTG	CAG C	CAG (CCT	GGG	GCT	GAG	die	GTG	AAG	CCT	GGG	102	
45	GCC	TCA GI	rg aag <i>i</i>	ATG TCC	TGC A	AG (GCT	TCT	GGC	TAC	AC	ттт	ACC	AGT	TAC	153	
	ААТ	ATG CA	AC TGG (TA AAA	CAG A	ACA (CCT	GGT	CGG	GGC	CTG	GAA	TGG	ATT	GGA	204	
			AT CCC (•				\				255	
50			CA TTG A		÷ 1.					. :						306	
	AGC	AGC CI	rg aca i	CT GAG	GAC T	CT (GCG	GTC	TAT	TAÇ	TGT	GCA	A Ç A	TCG	ACT	357	

TAC TAC GGC GGT GAC TGG TAC TTC AAT GTC TGG GGC GCA GGG ACC ACG GTC 408

ACC GTC TGT GCA 420

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